

IN THE CLAIMS:

Please amend the following claims:

Sub D (Twice Amended) A method to realize synchronization of data (DAT) sent from a transmitter (TX) to a receiver (RX), with a signal (SIG) available in said receiver (RX), characterized in that said method includes the steps of:

in said receiver (RX) generating said signal available in said receiver in accordance with a time moment when data fits into an available time frame in a predetermined place, wherein said signal available in said receiver is not a signal with a constant frequency;

A30 in said receiver (RX) generating a trigger signal (T) from said signal (SIG) available in said receiver;

sending said trigger signal (T) from said receiver (RX) to said transmitter (TX) to indicate that the transmitter is allowed to send said data (DAT); and

upon receipt of said trigger signal (T) by said transmitter (TX) sending said data (DAT) from said transmitter (TX) to said receiver (RX) wherein said data (DAT) is for receipt in said receiver synchronized with said signal (SIG) available in said receiver.

2. (Amended) The method according to claim 1, characterized in that said data (DAT) is asynchronous data.

91 3. (Amended) The method according to claim 1, characterized in that in the event that no data is available in said transmitter (TX) to be sent upon receipt of said trigger signal, said method further includes the step of sending idle data from said transmitter (TX) to said receiver (RX).

4. (Twice Amended) A receiver (RX) for receiving from a transmitter (TX) data (DAT), said data (DAT) synchronous with a signal (SIG) available in said receiver (RX), characterized in that said receiver (RX) includes:

a trigger generator (T-GEN) to generate a trigger signal (T) from said signal (SIG) available in said receiver wherein said signal available in said receiver is indicative of a time moment when data fits into an available time frame in a predetermined place, wherein said signal available in said receiver is not a signal with a constant frequency;

a trigger sender (T-SEND) to send said trigger signal (T) from said receiver (RX) to said transmitter (TX); and

a data receiver (DAT-RX) to receive said data (DAT) sent by said transmitter (TX) to said receiver (RX) upon receipt of said trigger signal (T) wherein said data (DAT) is for receipt in said receiver synchronized with said signal (SIG) available in said receiver.

5. (Amended) The receiver (RX) according to claim 4, characterized in that said receiver (RX) is included in an asymmetric digital subscriber line modem.

6. (Twice Amended) A transmitter (TX) for transmitting data (DAT) to a receiver (RX), said data (DAT) synchronous with a signal (SIG) available in said receiver (RX), characterized in that said transmitter (TX) includes:

a trigger receiver (T-RX) to receive a trigger signal (T) generated by said receiver (RX) from said signal (SIG) available in said receiver and sent from said receiver (RX) to said transmitter (TX) wherein said signal available in said receiver is indicative of a time moment when data fits into an available time frame in a predetermined place, wherein said

signal available in said receiver is not a signal with a constant frequency; and

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a data sender (DAT-SEND) to send data (DAT) from said transmitter (TX) to said receiver (RX) upon receipt of said trigger signal (T) wherein said data (DAT) is for receipt in said receiver already synchronized with said signal (SIG) available in said receiver.

7. (Amended) The transmitter (TX) according to claim 6, characterized in that said transmitter (TX) includes means to send said data (DAT) ~~in an asynchronous way.~~ by

8. (Amended) The transmitter (TX) according to claim 6, characterized in that said transmitter (TX) includes an idle data generator (ID-GEN) to generate idle data and to send said idle data from said transmitter (TX) to said receiver (RX) in the event that no data (DAT) is available in said transmitter (TX) upon receipt of said trigger signal (T)

Please add new claims as follows:

9. The method of claim 1, wherein said transmitter is an asynchronous transfer mode (ATM) ~~data stream.~~ transmitter

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10. The method of claim 1, wherein said receiver comprises frames of a digital subscriber line data stream.

11. The method of claim 1, wherein upon receipt of said trigger signal (T), said transmitter (TX) sends said data immediately or after a predetermined period.

12. A method to realize synchronization in a receiver (RX), of data (DAT) sent from a transmitter (TX) to said receiver (TX),

with a signal (SIG) available in said receiver (RX), said method includes the steps of:

said receiver (RX) generating a trigger signal (T);
sending said trigger signal (T) from said receiver (RX)
to said transmitter (TX);

upon receipt of said trigger signal (T) by said
transmitter (TX) sending said data (DAT) from said transmitter
(TX) to said receiver (RX),
characterized in that said trigger signal (T) is generated by
said receiver (RX) from said signal (SIG) in accordance with a
time moment when said data fits into a predetermined place in a
data stream and whereby said trigger signal (T) is indicating
that said transmitter is permitted to send said data to said
receiver.

13. The method according to claim 12, characterized in that
said method further includes in the event that no data is
available in said transmitter (TX) to be sent upon receipt of
said trigger signal, sending idle data from said transmitter (TX)
to said receiver (RX).

14. The method of claim 12, wherein said transmitter is an
asynchronous transfer mode (ATM) data stream.

15. The method of claim 12, wherein said receiver comprises
frames of a digital subscriber line data stream.

16. The method of claim 12, wherein upon receipt of said
trigger signal (T), said transmitter (TX) sends said data
immediately or after a predetermined period.

17. A receiver (RX) for receiving data (DAT) from a transmitter (TX), said data (DAT) synchronous with a signal (SIG) available in said receiver (RX), said receiver (RX) comprising:
a trigger generator (T-GEN) to generate a trigger signal (T) from said signal (SIG) available in said receiver;
a trigger sender (T-SEND) to send said trigger signal (T) from said receiver (RX) to said transmitter (TX); and
data receiver (DAT-RX) to receive said data (DAT) sent by said transmitter (TX) upon receipt of said trigger signal (T) by said receiver (RX), characterized in that said receiver (RX) is adapted to generate said trigger signal (T) from said signal (SIG) in accordance with a time moment when said data fits into a predetermined place in a data stream whereby said trigger signal (T) is indicating that said transmitter is permitted to send said data to said receiver.

18. The receiver (RX) according to claim 17, characterized in that said receiver (RX) is included in an asymmetric digital subscriber line modem.

19. The receiver of claim 17, wherein said transmitter is an asynchronous transfer mode (ATM) data stream.

20. The receiver of claim 17, wherein said receiver comprises frames of a digital subscriber line data stream.

21. The receiver of claim 17, wherein upon receipt of said trigger signal (T), said transmitter (TX) sends said data immediately or after a predetermined period.

22. A transmitter (TX) for transmitting data (DAT) to a receiver (RX), said data (DAT) synchronous with a signal (SIG)

available in said receiver (RX), said transmitter (TX)
comprising:

a trigger receiver (T-RX) to receive a trigger signal (T) generated by said receiver (RX) from said signal (SIG) available in said receiver and sent from said receiver (RX) to said transmitter (TX);

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a data sender (DAT-SEND) to send data (DAT) from said transmitter (TX) to said receiver (RX) upon receipt of said trigger signal (T), characterized in that said transmitter (TX) is adapted to receive said trigger signal generated by said receiver (RX) from said signal (SIG) available in said receiver in accordance with a time moment when said data fits into a predetermined place in a data stream whereby said trigger signal (T) is indicating that said transmitter is permitted to send said data to said receiver and further includes means to send said data (DAT) in an asynchronous way.

23. The transmitter (TX) according to claim 22, characterized in that said transmitter (TX) includes an idle data generator (ID-GEN) to generate idle data and to send said idle data from said transmitter (TX) to said receiver (RX) in the event that no data (DAT) is available in said transmitter (TX) upon receipt of said trigger signal (T).

24. The transmitter of claim 22, wherein said transmitter is an asynchronous transfer mode (ATM) data stream.

25. The transmitter of claim 22, wherein said receiver comprises frames of a digital subscriber line data stream.

26. The transmitter of claim 22, wherein upon receipt of said trigger signal (T), said transmitter (TX) sends said data immediately or after a predetermined period.

27. Receiver (RX), comprising:
means for sending an asynchronous trigger signal (T) from said receiver to a transmitter (TX) to indicate a moment when data from said transmitter is needed; and
means for receiving (DAT-RX) a data signal (DAT) with said data from said transmitter, at said moment when data from said transmitter is needed.

28. The receiver of claim 27, wherein said means for providing an asynchronous trigger signal comprises:
trigger generating means (T-GEN), responsive to a signal (SIG) available in said receiver but not having a constant frequency, for providing said asynchronous trigger signal; and
trigger sending means, responsive to said asynchronous trigger signal, for said sending said asynchronous trigger signal to said transmitter.

29. The receiver of claim 28, wherein said data signal is synchronized with said signal available in said receiver.

30. The receiver of claim 27, wherein said transmitter is an asynchronous transfer mode (ATM) data stream.

31. The receiver of claim 27, wherein said receiver comprises frames of a digital subscriber line data stream.

32. The receiver of claim 27, wherein upon receipt of said trigger signal (T), said transmitter (TX) sends said data immediately or after a predetermined period.

33. Transmitter (TX), comprising:
means for receiving (T-RX) an asynchronous trigger signal (T) from a receiver (RX) indicating a moment when data from said transmitter is needed; and
means for providing (DAT-SEND) a data signal (DAT) with said data from said transmitter at said moment when data from said transmitter is needed.

34. The transmitter of claim 33, further comprising means for buffering (BUF) said data until said asynchronous trigger signal is received by said means for receiving.

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35. The transmitter of claim 34, further comprising idle data generating (ID-GEN) means for providing idle data for sending said idle data to said receiver in case no data is available in said transmitter upon receipt of said trigger signal.

36. The transmitter of claim 33, wherein said transmitter is an asynchronous transfer mode (ATM) data stream.

37. The transmitter of claim 33, wherein said receiver comprises frames of a digital subscriber line data stream.

38. The transmitter of claim 33, wherein upon receipt of said trigger signal (T), said transmitter (TX) sends said data immediately or after a predetermined period.

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39. Method to synchronize reception of data (DAT) sent from an asynchronous transfer mode transmitter (TX) to an asymmetric digital subscriber line framer (RX), with a signal (SIG) indicating to said asymmetric digital subscriber line framer (RX) the time moments when said data fits into a predetermined place in asymmetric digital subscriber line frames, said method including the steps of:

generating trigger signals (T) indicating that said asynchronous transfer mode transmitter (TX) is permitted to send said data;

sending said trigger signals (T) from said asymmetric digital subscriber line framer (RX) to said asynchronous transfer mode transmitter (TX);

upon receipt of said trigger signals (T) by said asynchronous transfer mode transmitter (TX) sending said data (DAT) from said asynchronous transfer mode transmitter (TX) to said asymmetric digital subscriber line framer (RX).

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40. The method according to claim 39, characterized in that said method further comprises in the event that no data is available in said asynchronous transfer mode transmitter (TX) to be sent upon receipt of said trigger signals, sending idle data from said asynchronous transfer mode transmitter (TX) to said asymmetric digital subscriber line framer (RX).

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REMARKS

This letter is in response to the Official Action of March 13, 2002, in which claims 1-8 were rejected.

There are some differences between the patented claims and the claims 1-8 as amended above, chiefly that the negative limitations "without any need for further synchronization with a reference signal in said receiver and consequently without any

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